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1 Alternating Feature Spaces in Relevance Feedback
Fang Qian, Mingjing Li, Hong-Jiang Zhang, Wei-Ying Ma, Bo Zhang
September 2003   Multimedia Tools and Applications, Volume 21 Issue 1

Full text available: ☒ Publisher Site   Additional Information: full citation, abstra

Image retrieval using relevance feedback can be treated as a two
classification process. The user-labelled relevant and irrelevant in
positive and negative training samples, based on which a classifie
Then the classifier in turn classifies all images in the database. In
training samples is very small because the users are often impati
positive samples usually are not representati ...

Keywords: complementary features, image retrieval, relevance fe
training samples

2 The Nonlinear Statistics of High-Contrast Patches in Natural Images

Ann B. Lee, Kim S. Pedersen, David Mumford

August 2003   International Journal of Computer Vision, Volume 54 Issue 1-3

Full text available: Publisher Site   Additional Information: full citation, abstra

Recently, there has been a great deal of interest in modeling the natural images. However, despite the many advances in the dire multi-resolution analysis, the full probability distribution of pixels has not yet been described. In this study, we explore the space o the values of 3 × 3 high-contrast patches from optical and 3D rai the distribution of data is extr ...

Keywords: clutter, geometrically based statistics, high-dimension estimation, higher-order statistics, microimages, natural image s coding, pixel-based image models

3 Multimedia information retrieval: Experimental result analysis for a generati model

Thijs Westerveld, Arjen P. de Vries

July 2003 Proceedings of the 26th annual international ACM SIGIR conference on Re informaion retrieval

Full text available: pdf(2.59 MB)   Additional Information: full citation, abstract, references, inc

The main conclusion from the metrics-based evaluation of video retrieval system: non-interactive image retrieval from general collections using visual information (how a detailed analysis of retrieval results -- looking beyond mean average preci: relevance -- gives significant insight in the main problems with the visual part of Such an analytical approach proves an importan ...

Keywords: gaussian mixture models, multimedia retrieval, results analysis

4 Statistics: Extended wavelets for multiple measures

Antonios Deligiannakis, Nick Roussopoulos

June 2003   Proceedings of the 2003 ACM SIGMOD international conference on on M

Full text available: pdf(322.18 KB)   Additional Information: full citation, abstract, refei

While work in recent years has demonstrated that wavelets can be efficiently use data and provide fast and fairly accurate answers to queries, little emphasis has I approximating datasets containing multiple measures. Existing decomposition ap| each measure individually, or treat all measures as a vector of values and proces this paper that the resulting *individual*

5 ## Session 8: miscellaneous topics: An evaluation of methods for linking 3D vi

Matthew Plumlee, Colin Ware

April 2003   Proceedings of the 2003 symposium on Interactive 3D graphics

Full text available: pdf(3.73 MB)   Additional Information: full citation, abstra

It is common for 3D visualization systems to provide multiple points of view to a solutions to the problem of linking these views so that users can understand the : Toward developing guidelines for view-linking devices, we have carried out two e of three different classes of linking devices: a directional proxy, tethers from one map coupling. The task we apply them ...

Keywords: frames of reference, interaction design, multi-perspective identificatio

6 ## Session 1: bodies: An automatic modeling of human bodies from sizing par

Hyewon Seo, Nadia Magnenat-Thalmann

April 2003   Proceedings of the 2003 symposium on Interactive 3D graphics

Full text available: pdf(3.39 MB)   Additional Information: full citation, abstract

In this paper, we present an automatic, runtime modeler for modeling realistic, a can generate a new model or modify an existing one simply by inputting a numbe approach the problem by forming deformation functions that are devoted to the (and proportion of the body geometry by taking the parameters as input. Starting data of human body models as examples, we derive these functions b ...

Keywords: 3D scan data, PCA, examples, human body modeling, interpolation, si

7 ## Image-based reconstruction of spatial appearance and geometric detail

Hendrik P. A. Lensch, Jan Kautz, Michael Goesele, Wolfgang Heidrich, Hans-Peter S

April 2003   ACM Transactions on Graphics (TOG), Volume 22 Issue 2

Full text available: pdf(302.22 KB)   Additional Information: full citation, abstract, references, in

Real-world objects are usually composed of a number of different materials that (within a single material. Photorealistic rendering of such objects requires accurat properties of each material, as well as the spatially varying effects. We present a that robustly detects the different materials of real objects and fits an average bi function (BRDF) to each of them. In or ...

Keywords: BRDF measurement, normal map acquisition, photometric stereo, sha BRDFs

8 Region proximity in metric spaces and its use for approximate similarity sea
Giuseppe Amato, Fausto Rabitti, Pasquale Savino, Pavel Zezula
April 2003   ACM Transactions on Information Systems (TOIS), Volume 21 Issue
Full text available: pdf(1.01 MB)   Additional Information: full citation, abstract, references, ind

Similarity search structures for metric data typically bound object partitions by ba
overlap, a relevant issue is to estimate the proximity of regions in order to predic
regions' intersection. This paper analyzes the problem using a probabilistic appro
effectively computes the proximity through realistic heuristics that only require si
extensive simulation to validate the t ...

Keywords: Approximation algorithms, approximate similarity search, metric data,
evaluation

9 A hierarchical access control model for video database systems
Elisa Bertino, Jianping Fan, Elena Ferrari, Mohand-Said Hacid, Ahmed K. Elmagarm
April 2003   ACM Transactions on Information Systems (TOIS), Volume 21 Issue
Full text available: pdf(6.27 MB)   Additional Information: full citation, abstract, references, inc

Content-based video database access control is becoming very important, but it c
following related research issues: (a) efficient video analysis for supporting sema
(b) effective video database indexing structure; (c) the development of suitable v
development of access control models tailored to the characteristics of video data
novel approach to support multilevel acce ...

Keywords: Video database models, access control, indexing schemes

10 Satellite Image Deblurring Using Complex Wavelet Packets
André Jalobeanu, Laure Blanc-Féraud, Josiane Zerubia
March 2003   International Journal of Computer Vision, Volume 51 Issue 3
Full text available: Publisher Site   Additional Information: full citation, abstra

The deconvolution of blurred and noisy satellite images is an ill-p
Direct inversion leads to unacceptable noise amplification. Usually
during the inversion process. Recently, new approaches have bee
rough deconvolution is followed by noise filtering in the wavelet t
we have developed this second solution, by thresholding the coef
wavelet packet transform; all the parame ...

Keywords: Bayesian estimation, complex wavelet packets, deblui
images

11 Experiments in social data mining: The TopicShop system

Brian Amento, Loren Terveen, Will Hill, Deborah Hix, Robert Schulman

March 2003   ACM Transactions on Computer-Human Interaction (TOCHI), Volume

Full text available:🗐 pdf(377.92 KB)   Additional Information: full citation, abstract, references, i

Social data mining systems enable people to share opinions and benefit from eac by mining and redistributing information from computational records of social act system usage history, citations, or hyperlinks. Some general questions for evalua extracted information valuable? and (2) do interfaces based on the information ir report here on *TopicShop*, a syst ...

Keywords: Cocitation analysis, collaborative filtering, computer-supported cooper visualization, social filtering, social network analysis

12 Mini-buckets: A general scheme for bounded inference

Rina Dechter, Irina Rish

March 2003   Journal of the ACM (JACM), Volume 50 Issue 2

Full text available:🗐 pdf(902.27 KB)   Additional Information: full citation, abstract, references, ir

This article presents a class of approximation algorithms that extend the idea of l inspired by successful constraint propagation algorithms, to probabilistic inferenc The idea is to bound the dimensionality of dependencies created by inference alg parameterized scheme, called *mini-buckets*, that offers adjustable trade-off betw mini-bucket approach to optimization problems, s ...

Keywords: Accuracy/complexity trade-off, Bayesian networks, approximation alg optimization, probabilistic inference.

13 Interaction and VR: A wide field, high dynamic range, stereographic viewer

Patrick Ledda, Greg Ward, Alan Chalmers

February 2003   Proceedings of the 1st international conference on Computer graphics Austalasia and South East Asia

Full text available:🗐 pdf(5.58 MB)   Additional Information: full citation, abstract, references, inc

In this paper we present a High Dynamic Range viewer based on the 120-degree Extra Perspective) stereo optics used in the original NASA virtual reality systems. intense backlighting system (20 Kcd/m^2) and layered transparencies, we are able luminance levels and full dynamic range of almost any visual environment. This is display environments with luminance le ...

Keywords: dynamic range, tone reproduction

14 Understanding the Behavior of SFM Algorithms: A Geometric Approach

Tao Xiang, Loong-Fah Cheong

February 2003 International Journal of Computer Vision, Volume 51 Issue 2

Full text available: Publisher Site   Additional Information: full citation, abstract, index t

We put forth in this paper a geometrically motivated motion erro of supporting investigation of global effect such as inherent ambi with the usual statistical kinds of motion error analyses which cal such as noise perturbations, and where much of the results regai empirical in nature. The error expression that we derive allows u: conditions likely to cause ambigui ...

Keywords: depth distortion, epipolar constraint, error analysis, in from motion

15 A search engine for 3D models

Thomas Funkhouser, Patrick Min, Michael Kazhdan, Joyce Chen, Alex Halderman, C

January 2003 ACM Transactions on Graphics (TOG), Volume 22 Issue 1

Full text available: pdf(7.91 MB)   Additional Information: full citation, abstract, references, ind

As the number of 3D models available on the Web grows, there is an increasing r people find them. Unfortunately, traditional text-based search techniques are not this article, we investigate new shape-based search methods. The key challenges simple enough for novice users and matching algorithms robust enough to work 1 present a Web-based search engine system that support ...

Keywords: Search engine, shape matching, shape representation, shape retrieva

8/18/03 1:21 PM

16 A Wide-Band Approach to the Absolute Phase Retrieval in SAR Interferom

N. Veneziani, F. Bovenga, A. Refice

January 2003   Multidimensional Systems and Signal Processing, Volume 14 Issu

Full text available: 🖳 Publisher Site   Additional Information: full citation, abstra

Because of possible multiple solutions allowed, the unwrapping o
patterns in the spatial domain is an ill-posed problem which need
of the ground morphology for the solution of ambiguities. This is
interferometric SAR (Synthetic Aperture Radar) data. In this pap
approach to InSAR processing for retrieving the height of ground
each other, unlike most conventional phase unwrapp ...

Keywords: SAR interferometry, phase unwrapping, sub-band foc

17 On Advances in Statistical Modeling of Natural Images

A. Srivastava, A. B. Lee, E. P. Simoncelli, S.-C. Zhu

January 2003   Journal of Mathematical Imaging and Vision, Volume 18 Issue 1

Full text available: 🖳 Publisher Site   Additional Information: full citation, abstr

Statistical analysis of images reveals two interesting properties: (
statistics to scaling of images, and (ii) non-Gaussian behavior of
kurtosis, heavy tails, and sharp central cusps. In this paper we re
statistical modeling of natural images that attempt to explain the
of results are considered: (i) studies of probability models of ima
decompositions (such as Fourier or wavelet ...

Keywords: Bessel K form, generalized Laplacian, image manifold,
non-Gaussian models, scale invariance, statistical image analysis

18 A survey on wavelet applications in data mining

Tao Li, Qi Li, Shenghuo Zhu, Mitsunori Ogihara

December 2002   ACM SIGKDD Explorations Newsletter, Volume 4 Issue 2

Full text available: 🖳 pdf(330.06 KB)   Additional Information: full citation, abstract, refe

Recently there has been significant development in the use of wavelet methods ir
However, there has been written no comprehensive survey available on the topic
void. First, the paper presents a high-level data-mining framework that reduces t
components. Then applications of wavelets for each component are reviewd. The
impact of wavelets on data mining research an ...

8/18/03 1:21 PM

19 Clustering algorithms: Alternatives to the k-means algorithm that find better

Greg Hamerly, Charles Elkan

November 2002   Proceedings of the eleventh international conference on Information

Full text available: pdf(1.32 MB)   Additional Information: full citation, abstract, references, inc

We investigate here the behavior of the standard k-means clustering algorithm a k-harmonic means algorithm due to Zhang and colleagues, fuzzy k-means, Gauss two new variants of k-harmonic means. Our aim is to find which aspects of these good clusterings, as opposed to converging to a low-quality local optimum. We d(framework that introduces separate cluster membe ...

Keywords: clustering quality, k-harmonic means, k-means, unsupervised classific

20 Image similarity search systems: Symbolic photograph content-based retrie

Philippe Mulhem, Joo Hwee Lim

November 2002   Proceedings of the eleventh international conference on Information

Full text available: pdf(835.04 KB)   Additional Information: full citation, abstract, references, i

Photograph retrieval systems face the difficulty to deal with the different ways to We consider and demonstrate here the use of multiple index representations of p retrieval. The use of multiple indexes allows integration of the complementary str retrieval models. The proposed representation supports multiple labels for region inferences and relationships. We define links ...

Keywords: fusion/combination, image access

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